



(19)

Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) EP 1 067 182 A2

(12)

EUROPEAN PATENT APPLICATION

(43) Date of publication:
10.01.2001 Bulletin 2001/02

(51) Int Cl.7: C12N 15/12, C12N 15/10,
C12N 15/85, C12N 5/10,
C07K 14/47, C07K 16/18,
C12Q 1/68

(21) Application number: 00114090.4

(22) Date of filing: 07.07.2000

(84) Designated Contracting States:
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE
Designated Extension States:
AL LT LV MK RO SI

(30) Priority: 08.07.1999 JP 19417999
11.01.2000 JP 2000118775
02.05.2000 JP 2000183766

(71) Applicant: Helix Research Institute 1532-3 Yana
Kisarazu-shi, Chiba 292-0812 JP

(72) Inventors:
• Ota, Toshio
Fujisawa-shi, Kanagawa 251-0042 JP

- Isogai, Takao
Inashiki-gun, Ibaraki 300-0303 JP
- Nishikawa, Tetsuo
Tokyo 173-0013 JP
- Kawai, Yuri
Kisarazu-shi, Chiba 292-0812 JP
- Sugiyama, Tomoyasu
Kisarazu-shi, Chiba 292-0045 JP
- Hayashi, Koji
Ichihara-shi, Chiba 299-0125 JP

(74) Representative: VOSSIUS & PARTNER
Siebertstrasse 4
81675 München DE

(54) Secretory protein or membrane protein

(57) Novel human secretory proteins or membrane proteins, and full length cDNAs encoding the proteins are provided.

173 kinds of novel proteins and polynucleotides encoding these proteins have been isolated. The proteins of the present invention are useful as candidates for medicines or as target molecules for developing medicines. The polynucleotides of the present invention are used to produce these proteins.

